

**Notice of Allowability**

Application No.

09/415,018

Examiner

Fred Ferris

Applicant(s)

PEDENON, ARNAUD

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 19 July 2006.
2. ☒ The allowed claim(s) is/are 1,2,4-16 and 18-30.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some\* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☒ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
- (b) ☒ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date 08152006.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date \_\_\_\_\_
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

*Fred Ferris*  
FRED FERRIS  
PRIMARY EXAMINER  
12/21/06

### **DETAILED ACTION**

1. *Claims 1, 2, 4-16, 18-30 are currently pending in this application and have been presented for examination based on applicant's amendment and supporting arguments filed 19 July 2006. Claims 1, 2, 4-16, 18-30 have now been allowed over the prior art of record.*

### **Response to Arguments**

2. *Applicant's arguments filed 19 July 2006 have been fully considered and found to be persuasive. The previous 35 USC 101 rejections are now withdrawn in view of applicant's amendment to the claims and supporting arguments filed 19 July 2006.*

### **Drawings**

3. *This application was filed with informal drawings that were acceptable for examination purposes only. Now that the case has been allowed, new Formal drawings are required responsive to this Office Action.*

4. *Claims 1, 2, 4-16, 18-30 are allowed.*

*The following is an examiner's statement of reasons for allowance:*

*Applicants are disclosing a method and system for inferring a requested sequential cell from a candidate cell during the generation of a netlist of an electronic design using hardware descriptive language. This has been disclosed in the prior art of record.*

*However, the prior art does not disclose the specific combination of system elements and sequence of method steps of representing the requested and candidates cell as a math expression / polynom, in combination with transforming the candidate cell into the requested cell by performing each rule corresponding to each returned (rule) value, subsequently generating a netlist using the transformed candidate cell where the operation includes dividing a polynomial representation of the candidate cell with the polynomial representation of the requested cell (or multinoms by degree, claim 8) as now required by independent claims 1 and 8.*

*Independent claims 15 and 22 further use “means for” language and are given deference in view of In re Donaldson and interpreted in view of 35 U.S.C. § 112 paragraph 6. The “means for” language and the limitations related thereto of independent claims 15 and 22 are interpreted within the scope of enablement as provided within the relative embodiment provided within applicant’s specification. Specifically, the means for representing, determining, and transforming candidates cells is interpreted as disclosed in applicant’s specification on pages 10-15 and in Figures 4-8. The means for providing a rule, and setting/adding multinoms is interpreted as disclosed in applicant’s specification on pages 10-15 and in Figures 4-8, and 11.*

*The closest prior art uncovered during examination teaches certain limitations of the claimed invention as follows:*

**- U.S. Patent 6,272,664 issued to Chang:** teaches a system and method for representing an input (requested) cell from a netlist as a mathematical expression and further providing an output (candidate) representation and providing a rule (based on

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*look-up tables) and further transforming the cell by performing the rule. However, Change does not explicitly disclose the specific combination of system elements and sequence of method steps of representing the requested and candidates cell as a math expression / polynom, in combination with transforming the candidate cell into the requested cell by performing each rule corresponding to each returned (rule) value, subsequently generating a netlist using the transformed candidate cell where the operation includes dividing a polynomial representation of the candidate cell with the polynomial representation of the requested cell (or multinoms by degree, claim 8) as now required by independent claims 1, 8, 15, and 22.*

*The features noted above therefore render the claimed invention non-obvious over the prior art of record. Dependent claims 2, 4-7, 9-14, 16, 18-21 and 23-30 are deemed allowable as depending directly or indirectly from independent claims 1, 8, 15, and 22 respectively.*


*Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."*

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**Conclusion**

*Any inquiry concerning this communication or earlier communications from the examiner should be directed to Fred Ferris whose telephone number is 571-272-3778 and whose normal working hours are 8:30am to 5:00pm Monday to Friday. Any inquiry of a general nature relating to the status of this application should be directed to the group receptionist whose telephone number is 571-272-3700. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kamini Shah can be reached at 571-272-2279. The Official Fax Number is: (703) 872-9306*

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August 16, 2006

  
Fred Ferris  
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